



First Nations Health Authority  
Health through wellness

# FNHA Public Health Engineering Services

## Overview

Public Health Engineers (PHEs) work within our Environmental Public Health Services (EPHS) department at First Nations Health Authority (FNHA). PHEs work closely with Environmental Health Officers (EHOs), with a focus on community infrastructure projects. PHEs often work in the context of interdisciplinary project teams comprising health officers, community leadership, design consultants, provincial and federal agencies, and technical specialists. The role of the PHE is to assess potential health risks in proposed designs and whether the proposed design achieves health protection objectives. PHE reviews do not constitute professional engineering advice and communities should retain the services of a qualified professional to provide design and construction advice.

## Our services

- Inspect drinking water and wastewater systems.
- Assists EHOs to interpret drinking water and wastewater quality results.
- Review design & provide consultation for new or upgraded infrastructure from a public health perspective:
  - water infrastructure (wells, intakes, water mains, water treatment plants, reservoirs, water treatment equipment, etc.) .
  - wastewater infrastructure (septic systems, sanitary sewer mains, lift stations, disposal fields, treatment equipment, outfalls, lagoons, waste water treatment plants, etc.).
  - stormwater infrastructure (sewers, ditches, culverts, ponds).
  - civil servicing for new or upgraded community buildings.
  - recreational facilities such as swimming pools, spray parks or wading pools.
  - subdivision design and community land-use planning.
- Review draft E-ACRS or API inspections with community staff and/or operators.
- Provide recommendations in terms of infrastructure during the event of emergencies such as floods, forest fires, heat/cold/air quality advisories, chemical spills, storms, contamination of water supplies and sewage failures.

Contact us at [phe@fnha.ca](mailto:phe@fnha.ca)